Directed Reading for *Overview*Content Mastery The Nature of Science

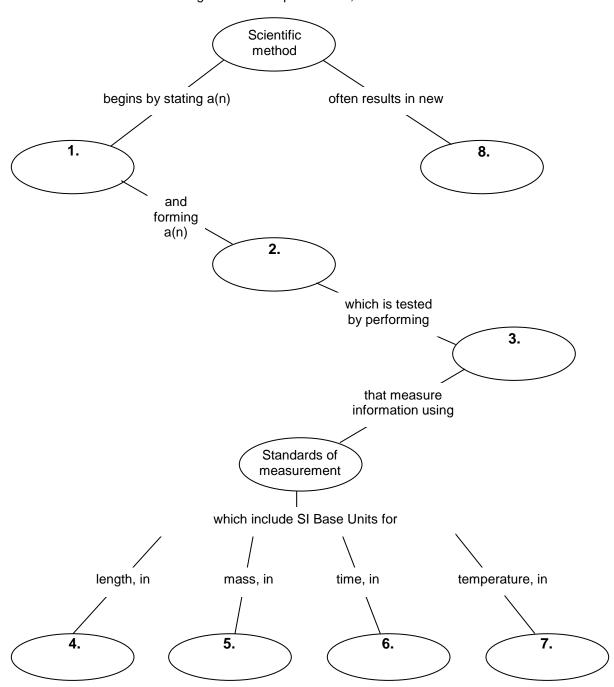
Directions: Complete the concept map using the following terms.

hypothesis meters experiments technology

Kelvin seconds

problem grams

An organized set of procedures, or



Chapter Resources • The Nature of Science

Name	Date	Class

Directed Reading for The Methods of Science Content Mastery Standards of Measurement

Directions: In each of the following statemer on the line provided.	nts, a term has been scrambled. Unscramble the term and write it
1.	An exact quantity that people agree to use for
	comparison is a ndtsarda.
2.	A process that uses observation and experimentation to gain knowledge is <i>nseccie</i> .
3.	An explanation based on many observations supported by experimental results is a <i>yethor</i> .
4.	A statement about what happens in nature that seems to be true all the time is a <i>scenicifit wal</i> .
5.	An educated guess using what you know and observe is a <i>pythoshise</i> .
6.	An idea, event, or object that represents something that is being explained is a <i>domel</i> .
	A hypothesis can be tested by conducting an <i>pexetrimne</i> .
8.	The solution is not obvious, and important information is missing in a <i>blepmor</i> .
9.	Different SI units are combined to obtain a <i>rvidede tniu</i> .
10.	Mass per unit volume of material is ndseyit.
11.	A quantity that can have more than a single value is called a <i>lebirava</i> .
12.	Solving a problem involves finding missing <i>timrifonona</i> .
13.	SI is an abbreviation for ailtonanerntl System of Units.
14.	The amount of space occupied by a substance is its <i>lvuoem</i> .
15.	Absolute zero is zero on the lKneiv lsace.

Name		Date		Class	
_	Directed Reading for Communicating with Graphs Content Mastery Science and Technology				
Directions: Choose the at the left of each statem		ord list that best comp	oletes each stateme	ent. Write the term in the blank	
	graph vertical	<i>y-</i> axis line	percentages independent		
		1. A visual display	of data or informa	tion is a	
		2. In a line graph,	the	axis is called the <i>y</i> -axis.	
		3. In a line graph, the	-	able is plotted on	
		4. The type of grap change is a		showing trends or continuous	
		5. Information in a		en shown as	
			changes and affects d the	s the measure of another variable.	
Directions: Match the te in the blank at the left.	erms in Column I	Il with the description	s in Column I. Write	e the letter of the correct term	
Column I				Column II	
7. red	quire people to c	onsider what is right	and wrong	a. society	

b. private industries

e. technology

c. technological system

f. industrialized nations

d. moral and ethical issues

8. the knowledge or skills to perform a task

11. a collection of objects, methods and procedures

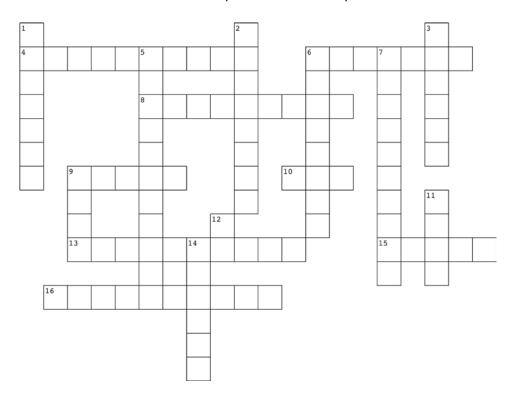
9. countries in which the basic needs for survival are met

- 10. group of people that share similar values and beliefs

12. one source of funding for developing technologies

Directed Reading for Key Terms Content Mastery The Nature of Science

Directions: Use the clues below to complete the crossword puzzle.



Across

- **4.** Test of a hypothesis
- **6.** The standard for comparison in an experiment
- **8.** Factor that depends on the value of the other variable; variable
- 9. Represents an idea or object
- **10.** A statement of nature that seems to be true is a scientific _____.
- **13.** An organized set of investigation procedures; _____ method
- 15. A visual display of data
- **16.** An educated guess about the likely solution to a problem

Down

1. Mass per unit volume

- **2.** An agreed-upon quantity used for comparison
- **3.** The amount of space occupied by an object
- **5.** Variable in an experiment that is adjusted by the experimenter; _____ variable
- **6.** Factor that doesn't vary in an experiment
- 7. Applied science
- **9.** The amount of matter in an object
- 11. Expectations change how results are viewed
- **12.** Abbreviation for International System of Units
- **14.** An explanation from observations and experiments